spent in this work. But though this information is given to individuals and generally relates to some special problem, it is nevertheless cheerfully given; and as it has the great advantage over general information that it is likely to be acted upon by the persons who receive it; and as such correspondence has a number of advantages which need not be enumerated here, it is a branch of the work which is considered eminently useful and important. The subject which has been apparently of greatest interest to correspondents has been insect pests and plant diseases. 93 letters were received and sent under this heading. Next comes Chemical Analyses with 92. Next in order are coffee experiments, sugar industry, general agricultural experiments, and fibre industry. Instead of writing for the information they desired, quite a number visited the laboratory and asked for the information they wanted. Of course no account is kept of such inquiries. Among the visitors were several deputations or what appeared to be deputations.

MACHINES AND IMPLEMENTS.

Many of these visitors asked questions relating to the use and probable expense of various farm implements and machines, principally, ploughs cultivators and drills and rice-hulling machines. Generally the very smallest and lightest implement which will do the work reasonably effective is desired, though once information about a steam plough was desired. This was, needless to say, quite unsuited for the existing requirements (small paddy fields). Several inquiries have also been made about sugar machinery and implements. Several visitors desired to know all about the machinery necessary for a modern sugar house on a small scale. But the capital necessary for such an investment was invariably much more than they had at their disposal. I sincerely hope that shortly I shall be able to have a permanent exhibit of such improved implements and machines as, after being tested, appear to be suited to the requirements of the raiyats and other agriculturists.

Reports, etc.—One report and two bulletins have been printed and sent free of charge to residents of the State who applied for them. One thousand English copies and 5,000 copies of the Kanarese translation have been printed in each case, and of these all but a few hundred copies have been distributed.

A. LEHMANN,
Agricultural Chemist.

Juice of Sugar-cane from Sulikere and Jaggories boiled from it.

Number.	Substance.	Moisture, per cent.	Glucose.		Total solids, per cent.	Soluble ash, per cent.	Soluble carbonates per cent.	Sucrose, per cent.	Loss of reducible sugar by inversion calculated, per cent.
			Total per cent.	Formed by inversion calculated per cent.					
167	Juice	...	·97	...	17·9	...	...	16.3	..
182	Jaggory	6.13	6·67	1·9	...	2.74	.75	79.7	5.7
168	Juice	...	·98	...	15·6	...	...	14.2	...
183	Jaggory	4·50	11.1	5·9	..	3·56	1.04	74.1	17.7
169	Juice	...	·92	..	17·6	...	...	16.2	...
184	Jaggory	2·95	10·6	6·2	...	2·63	1.02	76.8	18.6
170	Juice	...	·90	...	17·1	...	..	15.8	...
171	Juice	..	·91	...	17·6	...	...	16.2	...
186	Jaggory	3·55	8·70	4·3	...	3·24	1.02	78.4	12.9
172	Juice	...	·72	...	17·7	...	...	16.3	...
187	Jaggory	5·45	13·9	10·9	..	2·99	.96	76.7	32.7
173	Juice	...	·96	...	17·5	...	...	16.0	...
188	Jaggory	9·45	13·5	9·9	...	3·80	1.37	59.2	29.7
175	Juice	...	1·19	...	16·6	...	...	14.3	...
189	Jaggory	4·80	6·25	4·5	...	3·02	1.27	80.1	13.5
176	Juice	...	1·16	...	16·1	...	...	14.9	...
190	Jaggory	6·25	11·10	5·2	...	3·42	.96	75.7	15.6
177	Juice	...	1·10	...	17·3	...	...	15.7	...
178	Juice	...	1·02	...	17·5	...	...	15.8	...
179	Juice	...	1·00	...	17·4	...	...	16.1	...
193	Jaggory	3·82	10·6	5·9	...	3·20	.93	75.0	17.7
180	Juice	..	·76	...	17·2	...	...	14.8	...
194	Jaggory	5·42	12·50	9·2	...	2·95	.95	65.6	27.6
181	Juice	...	1·04	...	17·2	...	...	15.8	...
195	Jaggory	9·57	15·6	11·0		3·38	1.20	70.0	33.0

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Juice from Sugar Beets (Austrian) Sown August 15th 1901.

Number	Age of beets in days	Weight of leaves in grammes	Weight of beets in grammes	Total solids	Sucrose	Coefficient of purity	Remarks
...	...	...	...	...	3·7	...	
164	94	642	344	9·9	7·6	77	
164 (*a*)	118	304	478	10·4	7·0	67	
165	228	146	496	18·3	14·7	80	

Juice from Sugar Cane and Jaggory from Saklespur.

Number	Substance	Glucose	Total solids	Sucrose	Remarks
196	Juice	5·55	22·6	16·7	The cane had been cut 15 days before it reached laboratory and looked shrivelled up.
197	Jaggroy	11·8	...	78·2	

Analyses of Ripe Leaves from Hassan District collected after they had fallen.

No	Local name of Tree	Botanical name of Tree	Nitrogen %	Phosphoric acid %	Insoluble Residues %	Iron and Aluminium Oxides %	Lime %	Moisture, Organic and Volatile matters (approximate) %	Remarks
36	Gonee	Ficus Mysoriensis	0.821	0·155	4·62	1·08	5·29	96	The names of the trees are given in the order of merit for shade for coffee as selected by a Committee of Planters in Saklespur. The leaves were collected and named by Graham Anderson, Esq., C. I. E., of Barguai estate.
37	Kare Busree ...	Ficus infectoria ...	0·932	0·157	6·46	0·87	5·11	82	
38	Cub-Busree ...	Ficus ...	0·811	0·151	6·76	0·38	3·01	87	
39	Attee	Ficus glomerata ...	0·915	0·163	8·38	0·71	5·57	78	
40	Beete	Dalbergia latifolia ...	1·597	0·225	1·64	0.99	1·77	93	
41	Jack	Atrocarpus integrifolia ...	1·067	0·112	8·67	0·65	2·77	85	
42	Mullay Gerguttee ...	Ficus ...	0·838	0·115	12·54	0·76	5·45	76	
43	Wartee		1·07	0·137	7·64	1·16	..	86	
44	Whotungay	Albizzia ...	1·79	0·236	3·68	1·45	...	91	
45	Tare	Terminalia belerica ..	0·654	0·127	6·95	0·53	...	86	
46	Govarnellu ...	Bischofia Javanica ...	0·79	0·221	3·66	1·05	...	91	
47	Silver Oak	Grevillea robusta ...	0·76	0·077	0·59	0·38		94	

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Analyses of Fish, Bone, Poonacs, Dried Blood and Prawn Manure.

No.	Substance.	Locality.	Nitrogen.	Phosphoric acid.	Moisture.	Insoluble Residue.	Organic and volatile matter.	Remarks.
2	Fish, dried whole	West Coast	3·96	1·73	28·00	2·71	44·51	
5	Do do	Do	7·61	5·42	5·59	3·48	71·02	
6	Do do milled	Do	6·98	4·75	4·06	7·40	65·54	
7	Do do	Do	8·72	6·12	4·41	9·73	70·21	
8	Do skins do	Do	12·00	3·37	...	...	...	
9	Prawn skins	Do	8·14	...	...	4·47	78·46*	*Moisture and volatile matter.
1	Dried blood	Bangalore	11·55	...	...	...	...	
3	Castor poonac	Do	7·38	...	...	...	...	
10	Hongay poonac	West Coast	3·82	...	..	...	...	
11	Bone meal	Bombay	2·52	18·62	...	13·01	31·3	
15	Bone meal	Bangalore	4·04	23·34	...	2·03	39·42	

Miscellaneous substances.

No.	Substance.	From.	Moisture.	Organic and volatile matters.	Nitrogen.	Insoluble Residue.	Iron and Aluminium oxides.	Lime.	Phosphoric acid.	Potash.	Remarks.
32	Ashes	Central Distillery, Bangalore ...	4·53	28·94	...	24·40	7·56	29·04	1·45	1·97	Partially leached.
25	Lime stone	Kadur District	0·84	...	..	7·34	3·04	48·66	...	...	
26	Lime	Do do	0·87	...	...	21·46	7·75	41·58	...	...	Used for manurial purposes.
28	Lime	Do do	0·96	....	...	27·94	4·41	37·45	...	..	Do
27	Tank soil	Oossur Estate, Hassan District.	9·09	55·11	1·26	24·98	11·47	0·64	0·14	...	